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1 Information retrieval session 4: general retrieval issues I: Misuse detection for information retrieval systems

Rebecca Cathey, Ling Ma, Nazli Goharian, David Grossman

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management CIKM '03**

Publisher: ACM Press

Full text available: pdf(241.60 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a novel approach to detect misuse within an information retrieval system by gathering and maintaining knowledge of the behavior of the user rather than anticipating attacks by unknown assailants. Our approach is based on building and maintaining a profile of the behavior of the system user through tracking, or monitoring of user activity within the information retrieval system. Any new activity of the user is compared to the user profile to detect a potential misuse for the authorized ...

Keywords: clustering, information retrieval, misuse detection, relevance feedback, user profile

2 Securing information: Guarding the next Internet frontier: countering denial of information attacks

Mustaque Ahamad, Leo Mark, Wenke Lee, Edward Omicienski, Andre dos Santos, Ling Liu, Calton Pu

September 2002 **Proceedings of the 2002 workshop on New security paradigms NSPW '02**

Publisher: ACM Press

Full text available: pdf(918.49 KB) Additional Information: full citation, abstract, references, citings, index terms

As applications enabled by the Internet become information rich, ensuring access to quality information in the presence of potentially malicious entities will be a major challenge. Denial of information (DoI) attacks attempt to degrade the quality of information by deliberately introducing noise that appears to be useful information. The mere availability of information is insufficient if the user must find a needle in a haystack of noise that is created by an adversary to hide critical informat ...

Keywords: countering information attacks, quality of information

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141 Special section on data mining for intrusion detection and threat analysis: Data mining-based intrusion detectors: an overview of the columbia IDS project

Salvatore J. Stolfo, Wenke Lee, Philip K. Chan, Wei Fan, Eleazar Eskin

December 2001 **ACM SIGMOD Record**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

142 Special section on data mining for intrusion detection and threat analysis: Mining e-mail content for author identification forensics

O. de Vel, A. Anderson, M. Corney, G. Mohay

December 2001 **ACM SIGMOD Record**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(954.21 KB) Additional Information: full citation, abstract, references, citings, index terms

We describe an investigation into e-mail content mining for author identification, or authorship attribution, for the purpose of forensic investigation. We focus our discussion on the ability to discriminate between authors for the case of both aggregated e-mail topics as well as across different e-mail topics. An extended set of e-mail document features including structural characteristics and linguistic patterns were derived and, together with a Support Vector Machine learning algorithm, were ...

143 Abstraction-based intrusion detection in distributed environments

Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang

November 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(590.61 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported in current intrusion-detection systems (IDSs). This article presents a hierarchical model to support attack specification and event abstraction in distributed intrusion detection. The model involves three concepts: *system view*, *signature* ...

Keywords: *Cooperative information systems, heterogeneous systems, intrusion detection, misuse detection*

144 Session 5: Collaborative document monitoring

Natalie Glance, Jean-Luc Meunier, Pierre Bernard, Damián Arregui
September 2001 **Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work GROUP '01**
Publisher: ACM Press

Full text available: pdf(449.24 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we present a second generation URL monitoring tool which enables the collaborative evaluation of URL content changes. In our implementation, a document monitoring agent works alongside a recommender system. Using information provided by the monitoring agent, the collaborative system alerts users when documents they are monitoring have changed. The monitoring agent provides automatic evaluation of the nature of the change. Users, however, add subjective evaluations; one user's effor ...

Keywords: URL monitoring agent, WWW, recommender system

145 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world

Marjory S. Blumenthal, David D. Clark
August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1
Publisher: ACM Press

Full text available: pdf(176.33 KB) Additional Information: full citation, abstract, references, citings, index terms

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

146 3D or not 3D?: evaluating the effect of the third dimension in a document management system

Andy Cockburn, Bruce McKenzie
March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '01**
Publisher: ACM Press

Full text available: pdf(796.83 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Several recent research systems have provided interactive three-dimensional (3D) visualisations for supporting everyday work such as file and document management. But what improvements do these 3D interfaces offer over their traditional 2D counterparts? This paper describes the comparative evaluation of two document management systems that differ only in the number of dimensions used for displaying and interacting with the data. The 3D system is heavily based on Robertson et al.'s Data Moun ...

Keywords: 3D user interfaces, document management, information visualisation, spatial memory

147 Context-aware Retrieval: Exploring a New Environment for Information Retrieval and Information Filtering

P. J. Brown, G. J. F. Jones
January 2001 **Personal and Ubiquitous Computing**, Volume 5 Issue 4
Publisher: Springer-Verlag
Full text available: pdf(112.84 KB) Additional Information: full citation, abstract, citings, index terms

The opportunities for context-aware computing are fast expanding. Computing systems can be made aware of their environment by monitoring attributes such as their current location, the current time, the weather, or nearby equipment and users. Context-aware computing often involves retrieval of information: it introduces a new aspect to technologies for information delivery; currently these technologies are based mainly on contemporary approaches to information retrieval and information filtering. ...

148 Hierarchical indexing and document matching in BoW

Maayan Geffet, Dror G. Feitelson
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**
Publisher: ACM Press
Full text available: pdf(434.24 KB) Additional Information: full citation, abstract, references, index terms

BoW is an on-line bibliographical repository based on a hierarchical c oncept index to which entries are linked. Searching in the repository should therefore return matching topics from the hierarchy, rather than just a list of entries. Likewise, when new entries are inserted, a search for relevant topics to which they should be linked is required. We develop a vector-based algorithm that creates keyword vectors for the set of competing topics at each node in the hierarchy, and show how its ...

149 Intelligent agents for retrieving chinese Web financial news

Christopher C. Yang, Alan Chung
December 2000 **Proceedings of the twenty first international conference on Information systems ICIS '00**
Publisher: Association for Information Systems
Full text available: pdf(449.26 KB) Additional Information: full citation, references, citings, index terms

150 Automatically summarising Web sites: is there a way around it?

Einat Amitay, Cécile Paris
November 2000 **Proceedings of the ninth international conference on Information and knowledge management CIKM '00**
Publisher: ACM Press
Full text available: pdf(118.38 KB) Additional Information: full citation, references, citings, index terms

Keywords: Web site summarisation, information retrieval from links

151 XML document security based on provisional authorization

Michiharu Kudo, Satoshi Hada
November 2000 **Proceedings of the 7th ACM conference on Computer and**

communications security CCS '00
Publisher: ACM Press
Full text available: pdf(456.68 KB) Additional Information: full citation, references, citings, index terms

Keywords: XML, access control, provisional authorization, security transcoding

152 Character cluster based Thai information retrieval
Thanaruk Theeramunkong, Virach Sornlertlamvanich, Thanasan Tanhermhong, Wirat Chinnan
November 2000 **Proceedings of the fifth international workshop on on Information retrieval with Asian languages IRAL '00**
Publisher: ACM Press
Full text available: pdf(516.94 KB) Additional Information: full citation, abstract, references, citings

Some languages including Thai, Japanese and Chinese do not have explicit word boundary. This causes the problem of word boundary ambiguity that results in decreasing the accuracy of information retrieval. This paper proposes a new technique so-called character clustering to reduce the ambiguity of word boundary in Thai documents and hence improve searching efficiency. To investigate the efficiency, a set of experiments using Thai newspapers is conducted in both non-indexing and indexing searc ...

Keywords: Thai document, character cluster, indexing and non-indexing information retrieval

153 A framework for constructing features and models for intrusion detection systems
Wenke Lee, Salvatore J. Stolfo
November 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: pdf(187.03 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, we need a more systematic and automated IDS development process rather that the pure knowledge encoding and engineering approaches. This article describes a novel framework, MADAM ID, for Mining Audit Data for Automated Models for Instrusion ...

Keywords: data mining, feature construction, intrusion detection

154 Textual bloopers: an excerpt from GUI bloopers
Jeff Johnson
September 2000 **interactions**, Volume 7 Issue 5
Publisher: ACM Press
Full text available: pdf(734.19 KB) html(80.52 KB) Additional Information: full citation, index terms

155 Compiling document collections from the Internet

V. Kluev
September 2000 **ACM SIGIR Forum**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(684.24 KB) Additional Information: full citation, abstract, citings, index terms

Presently domain specific search engines are becoming popular because they offer greater accuracy, when compared to general purpose search engines. In this study, a method for collecting domain specific documents from the net was developed for the purpose of improving search results. The main thrust of our approach is to use several metrics to estimate the relevance of every automatically discovered document by a crawler regarding a topic of interest. This type of search resulted in two importan ...

Keywords: data collection, relevance information, search context, search engine

156 Document overlap detection system for distributed digital libraries
Krisztián Monostori, Arkdy Zaslavsky, Heinz Schmidt
June 2000 **Proceedings of the fifth ACM conference on Digital libraries DL '00**
Publisher: ACM Press
Full text available: pdf(22.18 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we introduce the MatchDetectReveal(MDR) system, which is capable of identifying overlapping and plagiarised documents. Each component of the system is briefly described. The matching-engine component uses a modified suffix tree representation, which is able to identify the exact overlapping chunks and its performance is also presented.

Keywords: distributed system, overlap detection, string-matching, suffix tree

157 Information retrieval on the web
Mei Kobayashi, Koichi Takeda
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2
Publisher: ACM Press
Full text available: pdf(213.89 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine

158 Web mining research: a survey
Raymond Kosala, Hendrik Blockeel
June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1
Publisher: ACM Press
Full text available: pdf(1.58 MB) Additional Information: full citation, citings, index terms

Keywords: Web, data mining, information extraction, information retrieval

159 Towards the digital government of the 21st century: a report from the workshop on research and development opportunities in federal information services

Herbert Schorr, Salvatore J. Stolfo

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

Publisher: Digital Government Research Center

Full text available: pdf(339.17 KB) Additional Information: full citation, abstract

A partnership between Government agencies and the information technologies research community has succeeded in the past for the benefit of the Nation. The most notable example is the emergence of the Internet as the basis for broad scientific, cultural, civic, and commercial discourse, evolving from what was originally a Government-supported networking research project. The collaborative development of a new applied research domain is critical to help meet the Nation's growing information servic ...

160 Multi-document summarization by visualizing topical content

Rie Kubota Ando, Branimir K. Boguraev, Roy J. Byrd, Mary S. Neff

April 2000 **NAACL-ANLP 2000 Workshop on Automatic summarization - Volume 4**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.66 MB) Additional Information: full citation, abstract, references, citings

This paper describes a framework for multi-document summarization which combines three premises: coherent themes can be identified reliably; highly representative themes, running across subsets of the document collection, can function as multi-document summary surrogates; and effective end-use of such themes should be facilitated by a visualization environment which clarifies the relationship between themes and documents. We present algorithms that formalize our framework, describe an implementa ...

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